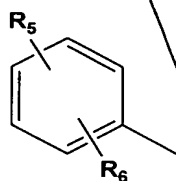


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-

wherein:



Y is R_6 or R_7 ,

A_1, A_2 and A_3 are independently CR₂ or N, provided that A_1, A_2 and A_3 are not all N at the same time;

each R₂ is selected from the group consisting of hydrogen, optionally substituted alkyl, alkenyl, or alkynyl, halogen, hydroxy, cycloalkyl, cyano, amino, alkylamino, dialkylamino, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino; or R₁ and R₂ are taken together with the carbon atoms to which they are attached to form a heterocyclic ring;

R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, cyano, amide, carboxyalkyl, alkoxyalkyl, ureido,

acylamino, thiol, acyloxy, azido, alkoxy, carboxy, carbonylamido and alkylthiol;

R_7 is an optionally substituted alkyl;

R_8 is selected from the group consisting of alkyl, alkenyl, alkynyl, OR_9 , amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, dialkylaminoalkenylamino, alkylaminoalkenylamino, hydroxyaminoalkenylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl, arylalkynyl, and arylalkylamino, all of which can be optionally substituted, provided that R_8 is not OR_9 when R_1 is SO_2R_8 ; wherein

R_9 is selected from the group consisting of hydrogen, optionally substituted alkyl, and an alkali metal; and

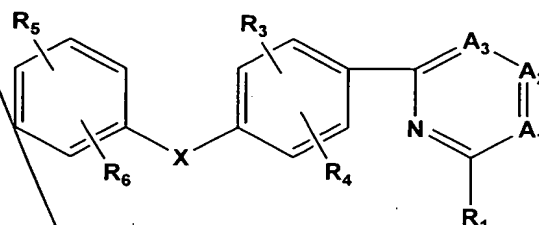
X is one of O, S, NH, or CH_2 when Y is other than R_7 ; or

X is one of O, S, NH, CH_2 or absent when Y is R_7 ;

with the provisos that:

- 1) R_2 is not methoxy if R_3 is trifluoromethyl, R_6 is H, X is O and R_1 is SO_2CH_2Ph ;
- 2) R_2 is not NH_2 if R_1 is methylthio, X is O and two of A_1 , A_2 and A_3 are N;
- 3) R_2 is not methyl if R_1 is SO_2R_8 , wherein R_8 is methylphenyl, R_3 and R_4 are methoxy, X is S and two of A_1 , A_2 and A_3 are N;
- 4) R_2 is not CCl_3 if R_1 is CCl_3 , X is S and two of A_1 , A_2 and A_3 are N; or
- 5) R_1 and R_2 are not both NH_2 if X is O or S and two of A_1 , A_2 and A_3 are N.

2. A compound having the Formula II:



or a pharmaceutically acceptable salt, prodrug or solvate thereof,

wherein:

A₁, A₂ and A₃ are independently CR₂ or N, provided that A₁, A₂ and A₃ are not all N at the same time;

R₁ is selected from the group consisting an optionally substituted alkyl, amino, alkylthiol, C(O)R₈, SO₂R₈, OC(O)NH₂, 2-imidazolyl, 2-imidazolyl, 3-pyrazolyl, 5-isoxazolyl, and 3-(1,2,4)-triazolyl;

each R₂ is selected from the group consisting of hydrogen, optionally substituted alkyl, alkenyl, or alkynyl, halogen, hydroxy, cycloalkyl, cyano, amino, alkylamino, dialkylamino, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino; or R₁ and R₂ are taken together with the carbon atoms to which they are attached to form a heterocyclic ring;

R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, cyano, amide, carboxyalkyl, alkoxyalkyl, ureido, acylamino, thiol, acyloxy, azido, alkoxy, carboxy, carbonylamido and alkylthiol; and

R₈ is selected from the group consisting of alkyl, alkenyl, alkynyl, OR₉, amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, dialkylaminoalkenylamino, alkylaminoalkenylamino, hydroxyaminoalkenylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl,

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arylalkynyl, and arylalkylamino, all of which can be optionally substituted, provided that R_8 is not OR_9 when R_1 is SO_2R_8 ; wherein

R_9 is selected from the group consisting of hydrogen, optionally substituted alkyl, and an alkali metal; and

X is one of O, S, NH, or CH_2 ;

with the provisos that:

- 1) R_2 is not methoxy if R_5 is trifluoromethyl, R_6 is H, X is O and R_1 is SO_2CH_2Ph ;
- 2) R_2 is not NH_2 if R_1 is methylthio, X is O and two of A_1 , A_2 and A_3 are N;
- 3) R_2 is not methyl if R_1 is SO_2R_8 , wherein R_8 is methylphenyl, R_3 and R_4 are methoxy, X is S and two of A_1 , A_2 and A_3 are N;
- 4) R_2 is not CCl_3 if R_1 is CCl_3 , X is S and two of A_1 , A_2 and A_3 are N;
or
- 5) R_1 and R_2 are not both NH_2 if X is O or S and two of A_1 , A_2 and A_3 are N.

3. The compound of claim 2, wherein A_1 , A_2 and A_3 are each CR_2 ; or A_1 is N and A_2 and A_3 are CR_2 ; or A_3 is N and A_1 and A_2 are CR_2 ; or A_2 is N and A_1 and A_3 are CR_2 ; or A_1 and A_3 are N and A_2 is CR_2 .

4. The compound of claim 2, wherein R_1 is selected from the group consisting of an alkyl optionally substituted by halogen or hydroxy, $C(O)R_8$, SO_2R_8 , 2-imidazolynyl, 2-imidazolyl, 3-pyrazolyl, and 5-isoxazolyl, wherein R_8 is as defined in claim 2, provided that R_8 is not OR_9 when R_1 is SO_2R_8 .

5. The compound of claim 4, wherein R_8 is selected from the group consisting of alkyl, alkenyl, OR_9 , amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, and

The first of these is the fact that the
 C_{60} molecule is a truncated icosahedron,
 which is a polyhedron with 32 faces,
 12 of which are pentagons and 20 are hexagons.
 This structure is highly symmetric,
 and it is this symmetry that
 allows the molecule to be
 described by a single point group,
 I_h , which is the highest
 possible symmetry for a molecule.
 This symmetry is also
 responsible for the molecule's
 unique electronic and
 vibrational properties.

6. The compound of claim 2, wherein R_2 is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aminoalkyl, amino, hydroxyalkyl, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino.
7. The compound of claim 6, wherein R_2 is selected from the group consisting of hydrogen, alkyl, alkoxy, aminoalkyl and aminocarbonyl.
8. The compound of claim 2, wherein R_3 , R_4 , R_5 , and R_6 are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, and cyano.
9. The compound of claim 8, wherein R_3 and R_4 are both hydrogen and R_5 and R_6 are independently selected from the group consisting of hydrogen, alkyl, halogen, haloalkyl, and nitro.
10. The compound of claim 2, wherein X is O or S.
11. The compound of claim 10, wherein X is O.
12. The compound of claim 2, wherein R_2 is hydrogen, X is O or S and R_1 is aminocarbonyl.
13. The compound of claim 2, wherein A_2 is CR_2 , wherein R_2 is other than H and A_1 and A_3 are each CH.

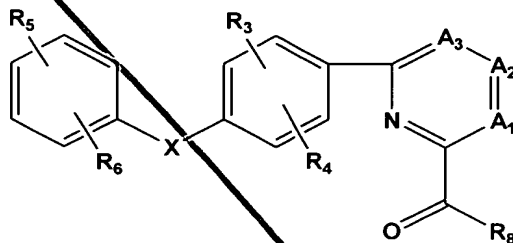
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cont

14. The compound of claim 2, wherein A_1 is N, A_2 is CR_2 , wherein R_2 is other than H and A_3 is CH.

15. The compound of claim 2, wherein A_3 is N, A_2 is CR_2 , wherein R_2 is other than H and A_1 is CH.

16. The compound of claim 2, wherein A_2 is N, A_1 is CR_2 , wherein R_2 is other than H, and A_3 is CH.

17. The compound of claim 2, having the Formula III:



or a pharmaceutically acceptable salt, prodrug or solvate thereof, wherein;

A_1 - A_3 , R_2 - R_6 , R_8 and X are as defined in claim 2.

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18. The compound of claim 17, wherein A_1 , A_2 and A_3 are each CR_2 ; or A_1 is N and A_2 and A_3 are CR_2 ; or A_3 is N and A_1 and A_2 are CR_2 ; or A_2 is N and A_1 and A_3 are CR_2 ; or A_1 and A_3 are N and A_2 is CR_2 .

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cont

19. The compound of claim 17, wherein R_2 is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aminoalkyl, amino, hydroxyalkyl, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino.

20. The compound of claim 19, wherein R_2 is selected from the group consisting of hydrogen, alkyl, alkoxy, aminoalkyl and aminocarbonyl.

21. The compound of claim 17, wherein R_3 , R_4 , R_5 , and R_6 are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, and cyano.

22. The compound of claim 21, wherein R_3 and R_4 are both hydrogen and R_5 and R_6 are independently selected from the group consisting of hydrogen, alkyl, halogen, haloalkyl, and nitro.

23. The compound of claim 17, wherein R_8 is selected from the group consisting of alkyl, alkenyl, OR_9 , amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, and heterocycloalkylamino, all of which can be optionally substituted, provided that R_8 is not OR_9 when R_1 is SO_2R_8 , and wherein R_9 is as defined in claim 2.

24. The compound of claim 17, wherein X is O or S.

25. The compound of claim 24, wherein X is O.

26. The compound of claim 17, wherein
X is O;

A_1 , A_2 and A_3 are each CR_2 ; or A_1 is N and A_2 and A_3 are CR_2 ; or A_3 is N and A_1 and A_2 are CR_2 ; or A_2 is N and A_1 and A_3 are CR_2 ; or A_1 and A_3 are N and A_2 is CR_2 ; wherein

R_2 is selected from the group consisting of hydrogen, alkyl, alkoxy, aminoalkyl, and aminocarbonyl;

R_3 and R_4 are both hydrogen;

R_5 and R_6 are independently selected from the group consisting of hydrogen, alkyl, halogen, haloalkyl, and nitro; and

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R₈ is amino.

27. The compound of claim 17, wherein A₂ is CR₂, wherein R₂ is other than H and A₁ and A₃ are each CH.

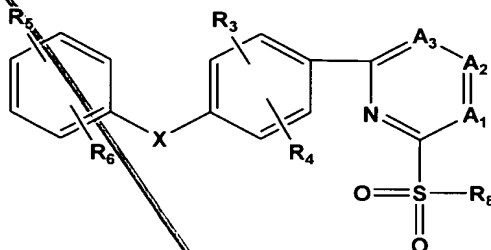
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cont

28. The compound of claim 17, wherein A₁ is N, A₂ is CR₂, wherein R₂ is other than H and A₃ is CH.

29. The compound of claim 17, wherein A₃ is N, A₂ is CR₂, wherein R₂ is other than H and A₁ is CH.

30. The compound of claim 17, wherein A₂ is N, A₁ is CR₂, wherein R₂ is other than H, and A₃ is CH.

31. The compound of claim 2, having Formula IV:



or a pharmaceutically acceptable salt, prodrug or solvate thereof;
wherein:

A₁-A₃, R₂-R₆, and X are as defined in claim 2 and

R₈ is selected from the group consisting of alkyl, alkenyl, alkynyl, amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl, arylalkynyl, and arylalkylamino, all of which can be optionally substituted.

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32. The compound of claim 31, wherein A₁, A₂ and A₃ are each CR₂; or A₁ is N and A₂ and A₃ are CR₂; or A₃ is N and A₁ and A₂ are CR₂; or

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A₂ is N and A₁ and A₃ are CR₂; or A₁ and A₃ are N and A₂ is CR₂, and R₂ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, aminoalkyl, amino, hydroxyalkyl, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino.

33. The compound of claim 32, wherein R₂ is selected from the group consisting of hydrogen, alkyl, alkoxy, aminoalkyl and aminocarbonyl.

34. The compound of claim 31, wherein R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, and cyano.

35. The compound of claim 34, wherein R₃ and R₄ are both hydrogen and R₅ and R₆ are independently selected from the group consisting of hydrogen, alkyl, halogen, haloalkyl, and nitro.

36. The compound of claim 31, wherein R₈ is selected from the group consisting of alkyl, alkenyl, amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, and heterocycloalkylamino, all of which can be optionally substituted.

37. The compound of claim 31, wherein X is O or S.

38. The compound of claim 37, wherein X is O.

39. A compound of claim 2, wherein said compound is:

4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxamide;

4-[4-(4-nitrophenoxy)phenyl]pyrimidine-2-carboxamide;

4-[4-(4-methoxyphenoxy)phenyl]pyrimidine-2-carboxamide;

4-[4-(4-trifluoromethylphenoxy)phenyl]pyrimidine-2-carboxamide;

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4-[4-(3-chloro-2-cyanophenoxy)phenyl]pyrimidine-2-carboxamide;
4-[4-(4-chloro-2-fluorophenoxy)phenyl]pyrimidine-2-carboxamide;
4-[4-(2,4-difluorophenoxy)phenyl]pyrimidine-2-carboxamide;
4-[4-(2-chloro-4-fluorophenoxy)phenyl]pyrimidine-2-carboxamide;
1-[4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-yl]-ethanone;
2-[4-(4-fluorophenoxy)phenyl]pyrimidine-4-carboxamide;
2-[4-(4-fluorophenoxy)phenyl]-4-methylpyrimidine;
2-methyl-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid sodium
salt;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid
methylamide;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid
dimethylamide;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid *tert*-
butylamide;
2-[4-(4-chloro-2-fluorophenoxy)phenyl]pyrimidine-4-carboxamide;
2-[4-(4-chloro-2-fluorophenoxy)phenyl]pyrimidine-4-carboxylic acid;
2-(4-phenoxyphenyl)-6-(dimethylamino)pyrimidine-4-carboxylic acid
dimethylamide;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid 2-
hydroxyethylamide;
4-[4-(4-fluorophenoxy)phenyl]pyrimidine-2-carboxylic acid
hydroxymethyleneamide;
2-(2-hydroxyprop-2-yl)-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;
4-[4-(2,4-difluorophenoxy)phenyl]pyrimidine-2-carboxylic acid 2-
morpholin-4-yl-ethyl amide;
2-(4,5-dihydro-1H-imidazol-2-yl)-4-[4-(4-fluorophenoxy)phenyl]-
pyrimidine;
2-(3-pyrazolyl)-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;

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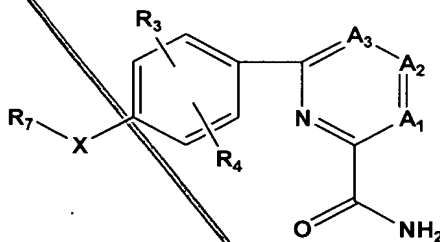
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2-(5-isoxazolyl)-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;
2-(1-methyl-3-pyrazolyl)-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;
2-[4-(4-chloro-2-fluorophenoxy)phenyl]pyrimidine-4-carboxylic acid
methanamide;
3-dimethylamino-1-{4-[4-(4-fluorophenoxy)phenyl]pyrimidin-2-
yl}propenone;
2-thiomethyl-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;
2-methanesulfonyl-4-[4-(4-fluorophenoxy)phenyl]pyrimidine;
2-[4-(4-chloro-2-fluorophenoxy)phenyl]-4-methyl-pyrimidine;
4-[4-(4-fluorophenoxy)-3-fluorophenyl]pyrimidine-2-carboxamide;
2-[4-(4-fluorophenoxy)-3-fluorophenyl]pyrimidine-4-carboxamide;
2-methyl-6-(4-phenoxyphenyl)pyridine;
6-(4-phenoxyphenyl)pyridine-2-carboxamide;
2-methyl-6-[4-(4-fluorophenoxy)phenyl]pyridine;
6-(4-phenoxyphenyl)pyridine-2-carboxylic acid;
6-(4-phenoxyphenyl)pyridine-2-carboxylic acid methanamide;
6-[4-(4-fluorophenoxy)phenyl]pyridine-2-carboxamide;
6-[4-(2,4-difluorophenoxy)phenyl]pyridine-2-carboxamide;
6-[4-(4-chloro-2-fluorophenoxy)phenyl]pyridine-2-carboxamide;
6-[4-(4-fluorophenoxy)-3-fluorophenyl]pyridine-2-carboxamide;
6-[4-(4-trifluoromethylphenoxy)phenyl]pyridine-2-carboxamide;
6-(4-phenoxyphenyl)pyrazine-2-carboxamide;
3,5-diamino-6-(4-phenoxyphenyl)pyrazine-2-carboxamide; or
2-[4-(4-nitrophenoxy)phenyl]-4-methyl-[1,3,5]-triazine,
or a pharmaceutically acceptable salt, prodrug or solvate thereof.

40. A compound of claim 1, wherein said compound is:
6-[4-(4-fluorophenoxy)phenyl]pyridine carboxylic acid N-
piperidinylolethylamide;
6-(4-*tert*-butylphenyl)pyridine-2-carboxamide;
6-(4-*n*-butylphenyl)pyridine-2-carboxamide;

6-(4-*i*-propylphenyl)pyridine-2-carboxamide;
6-(4-thiomethylphenyl)pyridine-2-carboxamide;
6-(4-ethoxyphenyl)pyridine-2-carboxamide; or
6-(4-methoxyphenyl)pyridine-2-carboxamide,
or a pharmaceutically acceptable salt, prodrug or solvate thereof.

41. The compound of claim 1, having the Formula V:



or a pharmaceutically acceptable salt, prodrug or solvate thereof,
wherein;

A₁-A₃, R₂-R₄, and R₇ are as defined in claim 1; and
X is one of O, S, NH, CH₂ or absent.

42. The compound of claim 41, wherein A₁, A₂ and A₃ are each CR₂; or A₁ is N and A₂ and A₃ are CR₂; or A₃ is N and A₁ and A₂ are CR₂; or A₂ is N and A₁ and A₃ are CR₂; or A₁ and A₃ are N and A₂ is CR₂.

43. The compound of claim 41, wherein R₇ is a C₁₋₆ alkyl optionally substituted with one or more of halogen, hydroxy, nitro, amino, cyano and alkoxy.


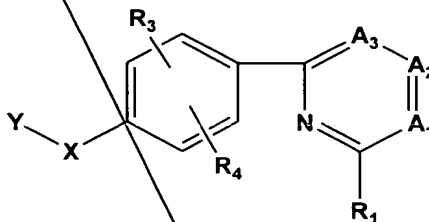
44. The compound of claim 41, wherein R₂ is selected from the group consisting of hydrogen, alkyl, alkoxy, aminoalkyl and aminocarbonyl.

46. The compound of claim 45, wherein R₃ and R₄ are both hydrogen.

48. The compound of claim 47, wherein X is O.

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Chemical structure of a benzene ring with substituents R_5 and R_6 .

or R_7 , provided that when Y is R_7 , R_1 is

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A₁, A₂ and A₃ are independently CR₂ or N, provided that A₁, A₂ and A₃ are not all N at the same time;

R₁ is selected from the group consisting an optionally substituted alkyl, amino, alkylthiol, C(O)R₈, SO₂R₈, OC(O)NH₂, 2-imidazolynyl, 2-imidazolyl, 3-pyrazolyl, 5-isoxazolyl, and 3-(1,2,4)-triazolyl;

each R₂ is selected from the group consisting of hydrogen, optionally substituted alkyl, alkenyl, or alkynyl, halogen, hydroxy, cycloalkyl, cyano, amino, alkylamino, dialkylamino, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino; or R₁ and R₂ are taken together with the carbon atoms to which they are attached to form a heterocyclic ring;

R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, cyano, amide, carboxyalkyl, alkoxyalkyl, ureido, acylamino, thiol, acyloxy, azido, alkoxy, carboxy, carbonylamido and alkylthiol;

R₇ is an optionally substituted alkyl;

R₈ is selected from the group consisting of alkyl, alkenyl, alkynyl, OR₉, amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, dialkylaminoalkenylamino, alkylaminoalkenylamino, hydroxyaminoalkenylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl, arylalkynyl, and arylalkylamino, all of which can be optionally substituted, provided that R₈ is not OR₉ when R₁ is SO₂R₈; wherein

R₉ is selected from the group consisting of hydrogen, optionally substituted alkyl, and an alkali metal; and

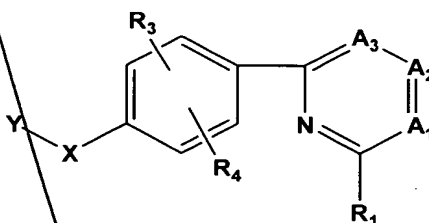
X is one of O, S, NH, or CH₂ when Y is other than R₇; or

X is one of O, S, NH, CH₂ or absent when Y is R₇; and a pharmaceutically acceptable carrier or diluent.

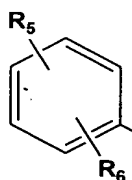
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51. The composition of claim 50, wherein the compound is as claimed in any one of claims 1-49.

52. A method of treating a disorder responsive to the blockade of sodium channels in a mammal suffering therefrom, comprising administering to a mammal in need of such treatment an effective amount of a compound of formula:



or a pharmaceutically acceptable salt, prodrug or solvate thereof, wherein:



Y is  or R7,

provided that when Y is R7, R6 is aminocarbonyl;

A1, A2 and A3 are independently CR2 or N, provided that A1, A2 and A3 are not all N at the same time;

R1 is selected from the group consisting an optionally substituted alkyl, amino, alkylthiol, C(O)R8, SO2R8, OC(O)NH2, 2-imidazolyl, 2-imidazolyl, 3-pyrazolyl, 5-isoxazolyl, and 3-(1,2,4)-triazolyl;

each R2 is selected from the group consisting of hydrogen, optionally substituted alkyl, alkenyl, or alkynyl, halogen, hydroxy, cycloalkyl, cyano, amino, alkylamino, dialkylamino, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino; or R1 and R2 are taken together with the carbon atoms to which they are attached to form a heterocyclic ring;

R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, cyano, amide, carboxyalkyl, alkoxyalkyl, ureido, acylamino, thiol, acyloxy, azido, alkoxy, carboxy, carbonylamido and alkylthiol;

R₇ is an optionally substituted alkyl;

R₈ is selected from the group consisting of alkyl, alkenyl, alkynyl, OR₉, amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, dialkylaminoalkenylamino, alkylaminoalkenylamino, hydroxyaminoalkenylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl, arylalkynyl, and arylalkylamino, all of which can be optionally substituted, provided that R₈ is not OR₉ when R₁ is SO₂R₈; wherein

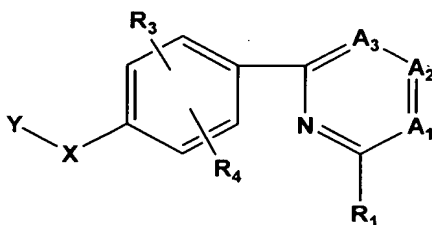
R₉ is selected from the group consisting of hydrogen, optionally substituted alkyl, and an alkali metal; and

X is one of O, S, NH, or CH₂ when Y is other than R₇; or

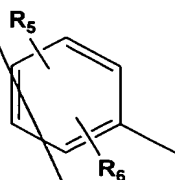
X is one of O, S, NH, CH₂ or absent when Y is R₇.

53. The method of claim 52, wherein the compound administered is as claimed in any one of the claims 1-49.

54. A method for treating, preventing or ameliorating neuronal loss following global and focal ischemia; treating, preventing or ameliorating neurodegenerative conditions; treating, preventing or ameliorating pain or tinnitus; treating, preventing or ameliorating manic depression; providing local anesthesia; or treating arrhythmias, or treating convulsions, comprising administering to a mammal in need of such treatment an effective amount of a compound formula:



or a pharmaceutically acceptable salt, prodrug or solvate thereof,
wherein:



Y is  or R₇,

provided that when Y is R₇, R₁ is aminocarbonyl;

A₁, A₂ and A₃ are independently CR₂ or N, provided that A₁, A₂ and A₃ are not all N at the same time;

R₁ is selected from the group consisting of an optionally substituted alkyl, amino, alkylthiol, C(O)R₈, SO₂R₈, OC(O)NH₂, 2-imidazolyl, 2-imidazolyl, 3-pyrazolyl, 5-isoxazolyl, and 3-(1,2,4)-triazolyl;

each R₂ is selected from the group consisting of hydrogen, optionally substituted alkyl, alkenyl, or alkynyl, halogen, hydroxy, cycloalkyl, cyano, amino, alkylamino, dialkylamino, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino; or R₁ and R₂ are taken together with the carbon atoms to which they are attached to form a heterocyclic ring;

R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, cyano, amide, carboxyalkyl, alkoxyalkyl, ureido, acylamino, thiol, acyloxy, azido, alkoxy, carboxy, carbonylamido and alkylthiol;

R_7 is an optionally substituted alkyl;

R_8 is selected from the group consisting of alkyl, alkenyl, alkynyl, OR_9 , amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, dialkylaminoalkenylamino, alkylaminoalkenylamino, hydroxyaminoalkenylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl, arylalkynyl, and arylalkylamino, all of which can be optionally substituted, provided that R_8 is not OR_9 when R_1 is SO_2R_8 ; wherein

R_9 is selected from the group consisting of hydrogen, optionally substituted alkyl, and an alkali metal; and

X is one of O, S, NH, or CH_2 when Y is other than R_7 ; or

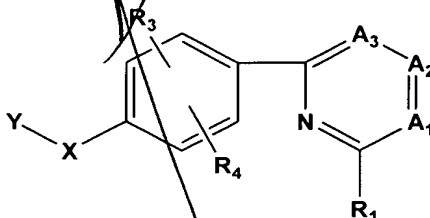
X is one of O, S, NH, CH_2 or absent when Y is R_7 .

Sub
A4

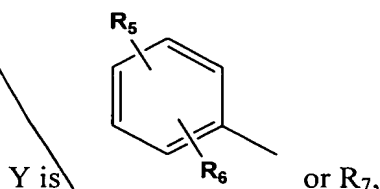
55. The method of claim 54, wherein the compound administered is as claimed in any one of claims 1-49.

56. The method of claim 54, wherein the method is for treating, preventing or ameliorating pain and said pain is one of neuropathic pain, surgical pain or chronic pain.

57. A method of alleviating or preventing seizure activity in an animal subject, comprising administering to said animal in need of such treatment an effective amount of a compound of formula:



or a pharmaceutically acceptable salt, prodrug or solvate thereof, wherein:



provided that when Y is R₇, R₁ is aminocarbonyl;

A₁, A₂ and A₃ are independently CR₂ or N, provided that A₁, A₂ and A₃ are not all N at the same time;

R₁ is selected from the group consisting an optionally substituted alkyl, amino, alkylthiol, C(O)R₈, SO₂R₈, OC(O)NH₂, 2-imidazolyl, 2-imidazolyl, 3-pyrazolyl, 5-isoxazolyl, and 3-(1,2,4)-triazolyl;

each R₂ is selected from the group consisting of hydrogen, optionally substituted alkyl, alkenyl, or alkynyl, halogen, hydroxy, cycloalkyl, cyano, amino, alkylamino, dialkylamino, alkoxy, aminocarbonyl, alkylaminocarbonyl, arylaminocarbonyl, aralkylaminocarbonyl, alkylcarbonylamino, arylcarbonylamino, and aralkylcarbonylamino; or R₁ and R₂ are taken together with the carbon atoms to which they are attached to form a heterocyclic ring;

R₃, R₄, R₅, and R₆ are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, halogen, haloalkyl, hydroxyalkyl, hydroxy, nitro, amino, cyano, amide, carboxyalkyl, alkoxyalkyl, ureido, acylamino, thiol, acyloxy, azido, alkoxy, carboxy, carbonylamido and alkylthiol;

R₇ is an optionally substituted alkyl;

R₈ is selected from the group consisting of alkyl, alkenyl, alkynyl, OR₉, amino, alkylamino, dialkylamino, alkenylamino, dialkylaminoalkenyl, dialkylaminoalkylamino, dialkylaminoalkenylamino, alkylaminoalkenylamino, hydroxyaminoalkenylamino, cycloalkyl, heterocycloalkyl, cycloalkylalkylamino, heterocycloalkylamino, aryl, arylalkyl, arylalkenyl, arylalkynyl, and arylalkylamino, all of which can be optionally substituted, provided that R₈ is not OR₉ when R₁ is SO₂R₈; wherein

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58. The method of claim 57, wherein the compound administered is as claimed in any one of claims 1-49.

dd
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add
C7

[illegible]